

**In the Abstract of the Disclosure:**

Please amend the Abstract of the Disclosure to read as follows. In accordance with 37 CFR § 1.72, the abstract is submitted herewith on a separate sheet of paper, following page 6 of this amendment.

Please amend the abstract as follows::

**ABRASIVE ENTRAINMENT**

**Abstract of the Disclosure**

A method for generating a high-velocity cutting jet (3) comprises forming a high velocity jet (10) of a liquid such as water, forming a suspension of an abrasive such as garnet in a carrier gas containing a condensable vapour such as superheated steam, and entraining the abrasive suspension into the liquid jet (10) so that the vapour condenses, producing a cutting jet (3) of a liquid/abrasive mixture. A cutting head (7) of apparatus for generating the cutting jet (3) has a chamber (8) into which the abrasive suspension is passed. The liquid jet (10) traverses this chamber (8), entraining the suspension, and passes into a tapering transition region (5) and a bore (9) of a nozzle (4). Kinetic energy is transferred from the liquid jet (1) to the abrasive as they pass through the chamber (8) and the nozzle (4). Condensation of the vapour ensures that the cutting jet (3) leaves the nozzle (4) at close to ambient pressure, reducing the diameter of the cutting jet (3) compared to conventional abrasive-in-air systems, so as to increase the energy density of the abrasive.